



T. 王伟 0769-8733355

**Test Report**

No.: GZSCR050418309/LP

Date: APR 20, 2005

Page 1 of 4

BRIGHT LED ELECTRONICS CORP.  
NO.8, GAO LONG DONG ROAD,  
GAO BU TOWN, DONGGUAN CITY

Report on the submitted sample said to be PHOTO-INTERRUPTER LED

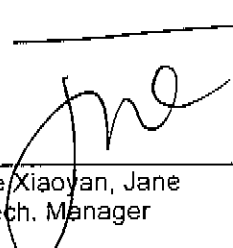
SGS Ref No. : SZ050405273EC-12.9  
Sample Receiving Date : APR 04, 2005  
Further Information Date : APR 15, 2005  
Testing Period : APR 04, 2005 TO APR 19, 2005

Test Requested : (1) As specified by client, sample 1 & 2: to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Sample 1 Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test method : (1) Sample 1  
Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).  
Lead content : Ashing after wet decomposition see flowchart (2).  
Mercury content – With reference to EPA 3052: 1996.  
Hexavalent Chromium content – with reference to EPA 3060A: 1996 & EPA 7196A: 1992.  
Sample 2  
Cadmium content – In-house method, with reference to BS EN1122: 2001 method B.  
Lead content – In-house method, with reference to EPA method 3050B: 1996.  
Mercury content – In-house method, with reference to EPA 3052: 1996.  
Hexavalent Chromium content – with reference to EPA 3060A: 1996 & EPA 7196A: 1992.  
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to SGS in-house method. Analysis was performed by GC/MS.

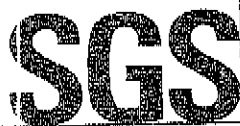
RESULTS : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

  
He Xiaoyan, Jane  
Tech. Manager

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001/008



## Test Report

No.: GZSCR050418309/LP

Date: APR 20, 2005

Page 2 of 4

Results :

(1)

	No.1	No.2
Lead Content (Pb) (ppm)	12	N.D.
Cadmium Content (Cd)	N.D.	N.D.
Mercury Content (Hg)	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.	N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg

(2)

Flame Retardants	No.1	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
Monobromobiphenyl	N.D.	5
Dibromobiphenyl	N.D.	5
Tribromobiphenyl	N.D.	5
Tetrabromobiphenyl	N.D.	5
Pentabromobiphenyl	N.D.	5
Hexabromobiphenyl	N.D.	5
Heptabromobiphenyl	N.D.	5
Octabromobiphenyl	N.D.	5
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
<b>Polybrominated Diphenylether (PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tribromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	8ppm	5
Decabromodiphenyl ether	10ppm	5

Note : - N.D. = Not Detected (< 5 ppm)  
- ppm = mg/kg

### Specimen Description:

No.1 Black plastic part  
No.2 Silvery metal pin

\*\*\* End of Report \*\*\*

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002/008



## Test Report

No.: GZSCR050418309/LP

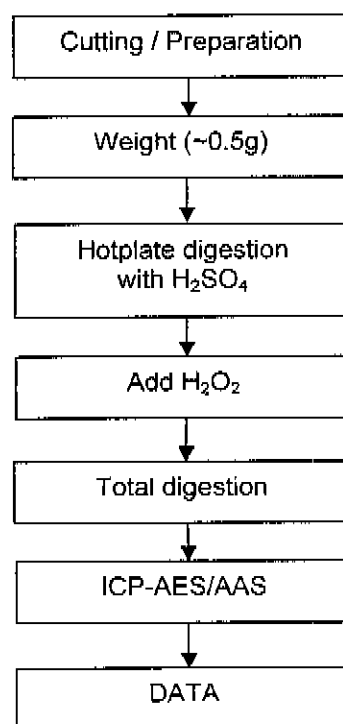
Date: APR 20, 2005

Page 3 of 4

### ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Sams Deng  
Leader : Joe Li

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003/008



## Test Report

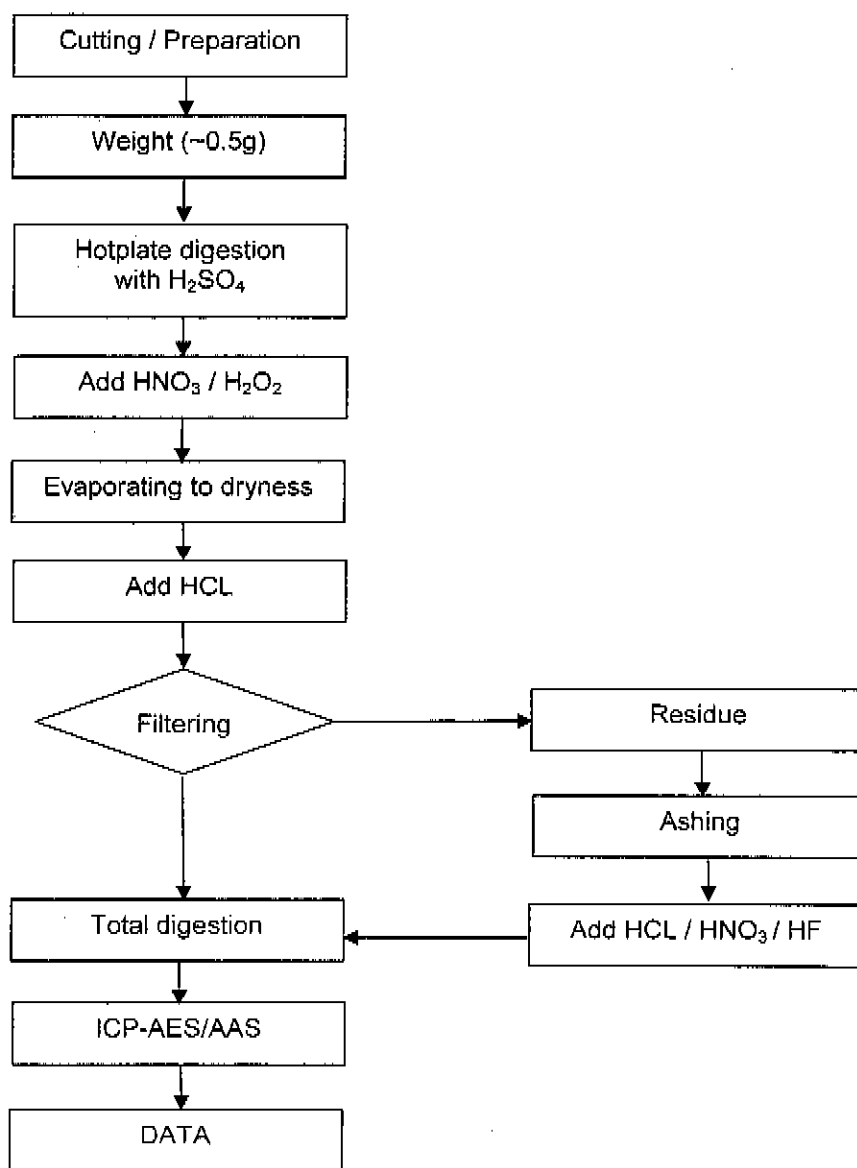
No.: GZSCR050418309/LP

Date: APR 20, 2005

Page 4 of 4

(2)

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent Li  
Leader : Adams Yu

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